

# TERANAP - 1M SAND



## Commercial Product Data Sheet

### Product Description

Teranap 1M Sand is a high performance modified bitumen waterproofing ply designed for use in homogeneous multi-layer modified bitumen plaza deck waterproofing membrane systems. Teranap consists of a fiberglass scrim/polyester mat composite impregnated and coated with high quality styrene-butadiene-styrene (SBS) modified bitumen. The top and bottom surfaces of the sheet are covered with a silica parting agent.

Teranap 1M Sand is available with Siplast RoofTag RFID roof asset technology on a Special-Made-To-Order basis. See RoofTag Commercial Product Data Sheet for more information.

### Product Uses

Teranap 1M Sand is the surface sheet in multi-layer plaza deck waterproofing systems, protected membrane systems, and vegetative roof system and is lapped 4 inches (10.2 cm) side and end. Teranap 1M Sand can be applied with a torch, PA-311 Adhesive, SFT Adhesive, or hot asphalt to approved substrates. Contact Siplast for specific approval on other product uses.

### Product Approvals

Teranap ballasted roof systems are approved by FM Approvals for use over insulated and non-insulated concrete roof deck constructions, subject to FM conditions and limitations.

Teranap 1 M Sand meets or exceeds the requirements of ASTM D 6162 Type II, Grade S and CSA A123.23-15 Type C, Grade 1 for SBS-modified bituminous sheet materials using a polyester reinforcement.

Teranap ballasted roof systems have been classified by Underwriters Laboratories as Class A roofing systems over insulated and non-insulated non-combustible roof decks.

### COMMERCIAL PRODUCT INFORMATION

Unit:	Roll		
Coverage:	0.75 Square	(7.0 m <sup>2</sup> )	
Weight Per Square:	Min: 116 lb	(5.7 kg/m <sup>2</sup> )	
Roll Length:	Min: 26.0 ft	(7.92 m)	
Roll Width:	Avg: 3.28	(1.00 m)	
Thickness:	Avg: 157 mils	(4.0 mm)	
	Min: 154 mils	(3.9 mm)	
Selvage Width:	N/A		
Selvage Surfacing:	Silica Parting Agent		
Top Surfacing:	Silica Parting Agent		
Back Surfacing:	Silica Parting Agent		

Packaging: Rolls are wound onto a compressed paper tube. The rolls are placed upright in open-topped crates cushioned with cardboard and polystyrene. The top of the palletted rolls is covered with Kraft paper. The palletted material is protected by a heat shrink polyethylene shroud.

Pallet: 41 in X 48 in (104 cm X 122 cm) wooden pallet  
Number Rolls Per Pallet: 25  
Number Pallets Per Truckload: 18  
Minimum Shipping Weight Per Roll: 87 lb (39.5 kg)

Storage and Handling: All Siplast roll waterproofing products should be stored on end on a clean flat surface. Care should be taken that rolls are not dropped on ends or edges and are not stored in a leaning position. Deformation resulting from these actions will make proper installation difficult. All waterproofing should be stored in a dry place, out of direct exposure to the elements, and should not be double stacked. Material should be handled in such a manner as to ensure that it remains dry prior to and during installation.

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## Physical and Mechanical Properties

UNITED STATES TEST STANDARDS			CANADA TEST STANDARDS	
Property (as Manufactured)	Values/Units	Test Method	Property (as manufactured)	Test Method CSA A123.23-15 Values/Units
Thickness (minimum)	154 mils (3.9 mm)	ASTM D 5147 section 6	Thickness (minimum)	3.9 mm (154 mils)
Thickness (average)	157 mils (4.0 mm)	ASTM D 5147 section 6	Thickness (average)	4.0 mm (157 mils)
<sup>1</sup> Peak Load @ 73°F (average)	80 lbf/inch (14.0 kN/m)	ASTM D 5147 section 7	<sup>1</sup> Peak Load @ 73°F (average)	14.0 kN/m (80 lbf/inch)
<sup>1</sup> Peak Load @ 0°F (average)	115 lbf/inch (20.1 kN/m)	ASTM D 5147 section 7	<sup>1</sup> Peak Load @ 0°F (average)	115 lbf/inch (20.1 kN/m)
<sup>1</sup> Elongation @ Peak Load, 73°F (average)	40%	ASTM D 5147 section 7	<sup>1</sup> Elongation @ Peak Load, 73°F (average)	40%
<sup>1</sup> Elongation @ Peak Load, 0°F (average)	40%	ASTM D 5147 section 7	<sup>1</sup> Elongation @ Peak Load, 0°F (average)	40%
<sup>1</sup> Elongation at 5% Peak Load @ 73°F (average)	100%	ASTM D 5147 section 7	<sup>1</sup> Elongation at 5% Peak Load @ 73°F (average)	100%
<sup>1</sup> Tear Strength (average)	100 lbf (0.45 kN)	ASTM D 5147 section 8	Strain Energy (before and after conditioning) @ 23°C (73°F) @ -18°C (0°F)	≥ 5.5 kN/m (≥ 31 lbf/in) ≥ 3.0 kN/m (≥ 17 lbf/in)
Water Absorption (maximum)	1%	ASTM D 5147 section 10	N/A	N/A
Dimensional Stability (maximum)	<0.5%	ASTM D 5147 section 11	Dimensional Stability (maximum)	<0.5%
Low Temperature Flexibility (maximum)	-15°F (-26°C)	ASTM D 5147 section 12	Low Temperature Flexibility (maximum)	-26°C (-15°F)
Compound Stability (minimum)	250°F (121°C)	ASTM D 5147 section 16	Compound Stability (minimum)	121°C (250°F)
			Mass Per Unit Area (Minimum)	5.7 kg/m <sup>2</sup> (116 lb/sq)

1. The value reported is the lower of either MD or XD.